



the Milliwatt



The award-winning monthly publication of
The Baltimore Radio Amateur Television Society
P.O.Box 5915 Baltimore, MD 21282-5915

December, 2008

BRATS Holiday Party December 16

The annual BRATS Holiday party will be held on Tuesday, December 16 at 7:15 PM at the Pikesville Library, 1301 Reisterstown Road in Pikesville. Please bring your family and friends and plan to join us for this festive occasion and help celebrate the holiday season.

BRATS ELECTIONS TO BE HELD IN DECEMBER

Because the by-laws require elections during the October-November-December quarter, we will hold our elections at the December meeting, as required. Up for election will be the 4 officers and 3 of the 6 directors. If you would like to run for office or Board member, please let Mayer, W3GXX know in advance of the meeting.

FCC AMENDS WE2XRH EXPERIMENTAL LICENSE

In response to the October 20 ARRL Petition for Modification or Cancellation of Experimental Authorization (Petition) concerning an experimental license issued to Digital Aurora Radio Technologies (DART) station WE2XRH, the FCC today issued an amended license that redefines one of the station's frequency ranges to eliminate conflict with the Amateur Radio Service. This revision addresses ARRL's concern that the original 7.10 to 7.60 MHz range would cause unacceptable interference to Amateur Radio operations in the 40 meter band. The amended license narrows the range to 7.30 to 7.60 MHz and gives as the reason for the change, "operation in the band 7.1-7.3 MHz will cause harmful interference to Amateur Radio Service licensees."

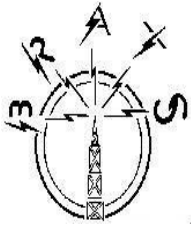
"We are delighted that the FCC acted so promptly to correct this error and are pleased that the matter has been resolved," said ARRL CEO David Sumner, K1ZZ.

WE2XRH will be testing a proposed domestic broadcast service using a 20 kHz bandwidth digital emission at a transmitter output power of 100 kW and an ERP of 660 kW within a radius of 1500 kilometers of Delta Junction, Alaska. According to the amended license, the transmissions will take place in the frequency ranges 4.4 to 5.1 MHz, 7.3 to 7.6 MHz and 9.25 to 9.95 MHz. (ARRL Letter)

ARRL VEC Announces Exam Fee Increase

On November 6, The ARRL VEC announced that as of January 1, 2009, the fee to take an ARRL Volunteer Examiner (VE)-administered Amateur Radio license exam will increase by \$1, from \$14 to \$15. According to ARRL VEC Manager Maria Somma, AB1FM, ARRL VE teams may retain up to \$7 of this fee to directly reimburse their teams out-of-pocket examination expenses; currently, VE teams keep \$6. This is the first time in four years that the examination fee has been adjusted.

Holiday Greetings to All!



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Items herein may be reprinted with credit.

Mayer D. Zimmerman, W3GXX, Editor

Some Thoughts

Another year is gone. Another year is coming up. This past year saw another successful hamfest as well as some interesting meetings. We hope you will remember to pay your dues when you receive your renewal notice so we can remain a viable amateur radio club and continue to improve our repeater system as well as our public service capabilities. But we cannot do it alone. We need your help. Join with us in improving what we do so well. And have a happy and healthy holiday season and new year ...
73, Mayer, W3GXX

The Baltimore Radio Amateur TV Society, Inc. P.O. Box 5915 Baltimore, MD 21282-5915

a non-profit organization under section 501(c)(3) of the Internal Revenue Code and a non-profit corporation in the State of Maryland. We belong to and support the Foundation for Amateur Radio (FAR) and the American Radio Relay League (ARRL).

home page: <http://www.bratsatv.org>

e-mail: brats@bratsatv.org

InfoLine: 410- 461-1212

Meetings: 3rd Tuesday, 7:15 PM, Pikesville Library, 1301 Reisterstown Rd., Pikesville, MD.

President: Ed Rosen, N3GXH

Vice Pres: Edward Koritzer, N3DGY

Secretary: Mayer D. Zimmerman, W3GXX

Treasurer: Les McClure, W3GXT

Webmaster: Laura F, KB3LJM

Chairman of the Board: Heru Walmsley, W3WVV

Vice Chairman, Technical: Mike Dees, N3EZD

Vice Chairman, Operations: Ian Millet, N3CVA

BRATS Repeaters

BRATS Linked Repeater System:

WB3DZO: 147.03+, 224.96-, 448.325-

BRATS Stand-alone repeaters:

443.350+

BRATS Packet Network Nodes

W3GXT-5 145.05

W3GXT-10 224.52

BRATS ATV Repeater System:

W3WCQ: inputs: 426.25, 1253.25

outputs: 439.25, 911.25

BRATS Weekly Nets

Mon 9 pm Traffic and Info Net, W3GXX

Tues 11:45 Informal ATV Net, W3WVV

Tues 9 pm BRATS Horsetraders Net, Grant, KA3CEA

Wed 9 pm CATS ATV Net

Thurs 9 pm BRATS ATV Net

Sat 1 pm Weekly News Bulletin, W3GXX

Sat 1:20 The BRATS Answer Men: KB3JQQ

Sun 8 pm MATS ATV Net

As needed Weather/Emergency Net, Skywarn

BRATS Board of Directors

Through 12/09:

KA3IDB, KB3FIF, K0RYX

Through 12/08:

W3ZQI, KB3LJM, K2GZY

Regular BRATS Meetings

3rd Tuesday of each month, 7:15 PM

Pikesville Library, 1301 Reisterstown Rd

Next BRATS Meeting

Tuesday, December 16, 7:15 PM

Pikesville Library

1301 Reisterstown Road, Pikesville

Annual Holiday Party

FCC approves white space for broadband

The Federal Communications Commission, as expected, approved a measure that would make white space spectrum available for wireless broadband.

White space is industry lingo for the unused airwaves that abut broadcast TV spectrum, providing a buffer zone from stray signals and other interference. The buffer zone was set up more than 50 years ago when TV was first invented.

The FCC's white-space plan was initially proposed four years ago. More than 25,000 comments from supporters as well as critics were submitted.

Under the FCC's plan, white space spectrum will be unlicensed and free like Wi-Fi to anybody who wants to use it. In some markets, there's enough white space to fill a half dozen TV channels.

FCC Chairman Kevin Martin says consumers are the biggest winners. The white-space plan is a significant victory for consumers, he told USA TODAY. The ability to have Wi-Fi like connectivity, at faster speeds and greater range will help further deployment of broadband across the USA. Supporters cheered the move. This spectrum should become fertile ground for innovation, potentially offering consumers and companies an unlimited variety of applications, devices, networks and more, the Information Technology Association said in a prepared statement. Tech giant Motorola agreed. By allowing the use of white-space spectrum, the FCC is advancing access to broadband services, especially in rural areas where broadband is more limited, Motorola said in a prepared statement. Other supporters include IBM, HP and Dell.

Broadcasters opposed the plan. Their basic beef: white space devices which don't yet exist might introduce interference into TV signals. Sports leagues, Broadway theatre owners and others that rely on wireless microphones, which use the same airwaves, also opposed the plan.

To guard against interference, the FCC adopted a number of safeguards. Example: In major markets, you won't be able to use white-space devices near TV broadcast locations or big entertainment venues such as Madison Square Garden. Others can ask the FCC for similar safe zone treatment.

The FCC also opened an inquiry into cable TV pricing Monday. Specifically, the agency is investigating how much cable TV operators plan to charge consumers once the nation moves from analog to all-digital broadcast TV. The move, which will impact millions of TV viewers across the USA, takes place next February.

According to Martin, consumers have lately been flooding the FCC with complaints about the post-transition plans of cable TV operators. There's a lot of consumer confusion, he says. The agency's concern, he says, is that cable TV operators will try to use the transition to force customers to spend the same amount of money to get less programming once the transition takes place, or more money to get the same amount of programming. Either way, he says, consumers wind up losing. The FCC doesn't regulate cable TV prices, per se. But under its mandate from Congress, the agency has broad latitude to look out for the interests of consumers including cable TV customers.

As part of the inquiry, the FCC sent a letter yesterday to a number of cable companies, including Time Warner, Comcast and Verizon, seeking information about their post-transition pricing plans. Consumer's Union, one of the largest consumer advocacy groups in the USA, wrote a letter to the U.S. Senate last month asking for such a review, Martin noted.

Boarding Passes via e-mail

American Airlines customers departing from some airports can now choose to receive their boarding passes via e-mail on their mobile phones or PDAs. The mobile boarding passes are available for passengers departing on domestic flights from Chicago O'Hare, Los Angeles International and John Wayne Orange County. The airline may expand the program to other airports if the trial is successful.

Spam plummets after bust

The power of the press. How else to describe the impact of an investigative piece by ace reporter Brian Krebs of the Washington Post, which led to the take down of McColo, a Web-hosting company responsible for a ton of spam. E-mail security firm IronPort says spam volumes are down about 60%, to 64.1 billion from 153 billion just a few days ago. By comparison, in September and October, the average daily spam volume was almost 190 billion. During a 48-hour period this week, Symantec and other message security companies observed a 65% decrease in spam messages. Symantec does not expect levels to remain low, however, as enterprising spammers move on to other illicit Web-hosting services to distribute their unwanted commercial e-mail.

ARRL has been notified that Comcast, one of the largest cable providers in the country, has been blocking e-mail traffic from one of the servers that processes messages for the arrl.net E-mail Forwarding Service. This has resulted in a disruption of service to more than 5500 ARRL members who have their callsign@arrl.net e-mail forwarded to a Comcast.net e-mail address. According to ARRL Chief Financial Officer Barry Shelley, N1VXY, ARRL has been in contact with Comcast and has convinced them to remove the blockage. Their actions have caused a significant backlog of messages which will take the next several hours to clear, Shelley said. Unfortunately, messages that were bounced will need to be resent. ARRL apologizes for any inconvenience.

Canadian Amateurs Receive Limited 500 kHz Privileges

On November 10, Radio Amateurs of Canada ([RAC](#)) announced that [Industry Canada](#), which regulates Amateur Radio in that country, has accepted an RAC proposal for selected Canadian radio amateurs to operate in the vicinity of 500 kHz. The proposal states that RAC would recommend amateurs who would be licensed to operate in the 504-509 kHz band with a maximum power of 20 W ERP and bandwidth up to 1 kHz. Stations operating in this band would be technically operating under Special Developmental Licenses, although they would all be radio amateurs. Distinct call signs would be used and the licenses would be renewable on an annual basis, subject to the amateur demonstrating the research he has carried out. According to the RAC, these amateur operations would support Canada's efforts to place a proposal on the agenda of the 2011 World Radio Conference (WRC-11), which, if adopted, would create an amateur allocation in the 600 meter band. The US, under the auspices of the ARRL's 500 kHz Experimental Station, [WD2XSH](#), is also conducting research in this band. Canada is the eighth country to do experimentation on 500 kHz; along with the US and Canada, Great Britain, Germany, Sweden, Czech Republic, the Netherlands and Romania are also participating. More information on the Canadian proposal will be posted to the RAC Web site as it becomes available.

Panasonic to buy Sanyo, more deals may follow

Panasonic Corp said it would acquire smaller rival Sanyo Electric Co, creating Japan's top electronics maker and foreshadowing further consolidation in an industry hit by slowing consumer demand. The acquisition, which one analyst estimated could cost about \$8.8 billion, would fortify Panasonic's competitiveness in rechargeable batteries and solar power equipment as demand grows for greener energy sources. Panasonic would at the same time become the world's second-largest conglomerate with a major electronics division, behind General Electric and surpassing Hitachi Ltd as the biggest electronics maker in Japan. But the deal carries risks and Panasonic has not said what it might pay for Sanyo, or what it plans to do with the latter's loss-making businesses such as home appliances and microchips. "Strategically (the deal) makes sense, though it doesn't necessarily make sense for Panasonic to take on every single bit of Sanyo Electric," said Hannah Cunliffe, fund manager at Germany's Union Investment, which holds Panasonic shares. "There has to be some relatively aggressive restructuring." The announcement was well flagged and sources told Reuters last weekend that Sanyo and Panasonic, which sits on \$10 billion in cash, had agreed in principle to a deal. Panasonic, the world's top plasma TV maker formerly known as Matsushita Electric, wants Sanyo because of its leading position in rechargeable batteries, which are widely used in mobile phones, PCs, music players and increasingly to power cars.

This is WIANews for week commencing Nov 2, 2008)

New equipment prices rising soon (in Australia)

With the shifting of value in the World's currencies it was inevitable that Ham Radio equipment sourced from overseas would eventually increase in price. Navcom Electronics, one of Queensland's prime Ham Radio equipment dealers has just advised that prices for ICOM equipment will be rising at least 10 percent from November 1st and an announcement from Standard Vertex on price rises on Yaesu equipment is expected shortly. Whilst dealers like Navcom will sell their currently held stocks at the current prices or arrange lay-by terms, it is expected that a run on these equipment stocks will quickly force dealers to have to order in new stock at the higher prices. (via vk4zz)

WorldRadio to Cease Print Publication

In a joint statement, *WorldRadio* Publisher Armond Noble, N6WR, and *CQ* Publisher Dick Ross, K2MGA, announced that *WorldRadio* magazine will no longer be published as a print magazine. According to the announcement, *CQ* Communications Inc has acquired *WorldRadio* and plans to continue it as an online publication on *CQ*'s Web site. *WorldRadio* subscribers will have their subscriptions transferred to *CQ* magazine. Readers will be notified of details as plans are finalized.

WA7BNM Contest Calendar

Nov. 29-30
CQ Worldwide DX Contest, CW

Dec. 5-7
ARRL 160-Meter Contest

December 6
TARA RTTY Melee
Wake-Up QRP Sprint!

Dec. 6-7
Tops Activity Contest

Dec. 13-14
ARRL 10-Meter Contest

Dec. 20
OK DX RTTY Contest

Dec 21
Croatian CW Contest

Dec 26
DARC Christmas Contest

Dec 27
RAC Winter Contest

Dec 27-28
Stew Perry Topband Challenge

(Thanks, Bruce, WA7BNM)

Spanish Hams Receive New Frequency Privileges

The Union de Radioaficionados Espanoles (URE), Spain's IARU Member-Society, reported that as of October 24, 2008, that country's Secretaría de Estado de Telecomunicaciones y para la Sociedad de la Información (SETSI) approved an expansion on 160 meters during certain events, such as international Amateur Radio contests. The new allocation, 1.810-1.830 MHz, as well as 1.850-2.000 MHz, will be available for the 2009 ARRL 160 Meter Contest, the 2009 King of Spain Contests (both SSB and CW) and the 2009 CQ 160 Meter Contest (both SSB and CW); it was also allowed for the CQ Worldwide DX Contest (SSB) earlier this month. In addition, Spanish hams were also granted privileges on the experimental portion of the 4 meter band 70.150-70.200 MHz running 10 W ERP until April 25, 2009. Thanks to The Daily DX for the information

ARRL DX Bulletin**IRAN, EP.**

Sadegh, EP3HF has been active on 15 meters using SSB around 0900z. QSL direct.

ANTARCTICA.

Nicolas, F4EGX will be QRV as FT5YI from the French base "Dumont d'Urville" on Petrel Island, IOTA AN-017, from November to mid December. Activity is on the HF bands using SSB in his spare time. QSL to home call.

BELGIUM, ON.

Special event station ON55INR is QRV until December 31 to mark the start of TV broadcasting from Brussels from the Institut National Belge de Radiodiffusion. QSL via bureau.

ANTARCTICA.

Bob, VK2ABP will be QRV as VK0BP on Davis Base from November 1 to March 7. He will be active in his spare time. QSL via VK2CA.

NIUE, ZK2.

Dave, N1EMC is QRV as ZK2DF. He has been active on 40 meters using SSB, listening up, around 0930z. QSL to home call.

OPERATION APPROVED FOR DXCC CREDIT.

The following operation is approved for DXCC credit: Iraq, YI9PT, 2008 operation.

GUATEMALA, TG.

Emmanuel, TG9AHM has been active using RTTY on 20 meters around 2000z.

LEBANON, OD.

Jean, ON4JM is QRV as OD5/ON4JM until the end of December while here with the United Nations. QSL to home call.

ANTARCTICA.

Joel, ON5XX will be QRV as OP0DL from Patriot Hills until around December 25 while on work assignment. QSL to home call.

SENEGAL, 6W. , GUINEA BISSAU, J5.

During his time in Western Africa, Peter, HA3AUI will be QRV as 6W2SC and J5UAP, from November 15 to March 31, 2009. Activity will be on 160 to 10 meters using mostly digital modes, but with some CW and SSB as well. QSL direct to home call.

BOSNIA-HERZEGOVINA, E7.

Special event station E760DPR is active until December 31 to celebrate the 60th anniversary of the RadioClub Trebinje. QSL via E73DPR.

ANTARCTICA.

Alex, RV1ZC is QRV as R1ANC from the Russian Vostokbase. Activity is on several HF bands using CW, SSB and various digital modes. QSL via RN1ON.

CENTRAL AFRICAN REPUBLIC, TL.

Padre, TL8PRV has been active on 20 meters around 0630z. QSL via IN3EYY.

OPERATIONS APPROVED FOR DXCC CREDIT.

The following operations are approved for DXCC credit: Lakshadweep Islands, VU7SJ, 2008 operation; Sable Island, CY0X, 2008 operation.

VE EXAMS

Hamfests and Events

Wednesday, January 21, 2009 Timonium, MD
BARC Mini-Fest, at the Fairgrounds, 5-10 PM, but you clean up (146.67/R)

Sunday, January 25, 2009 Odenton, MD
MMARC Hamfest. Odenton Volunteer Fire Department Hall; 1425 Annapolis Blvd (Rte 175); Frank, N3SEO, n3seo@aol.com (146.805/R) 410-647-3335

Feb. 7, 2009: Richmond Hamfest
Richmond Raceway Complex, 600 East Laburnum Ave. Richmond. 146.88/R 540-872-5949;
casdeb@earthlink.net

Feb 22, 2009: Winterfest,
Northern VA Community College, 8333 Little River Tpke, Annandale, VA by Vienna Wireless Socieity, 703-534-2081 146.79/R; wa4qms@arrl.net

March 28-29, 2009 Timonium, MD,
Greater Baltimore Hamboree and Computerfest; 146.67/R; by BARC <http://www.gbhc.org>; w3ft67@yahoo.com; 443-590-1444

Next BRATS Meeting

Tuesday, December 16, 7:15 PM at the Pikesville Library, 1301 Reisterstown Road.
Annual Holiday Party

Dates Set for DXpedition to Desecheo Island

The US Fish and Wildlife Service (USFWS) has notified a group of hams led by veteran DXpeditioners Bob Allphin, K4UEE, and Glenn Johnson, W0GJ, that they will be able to mount a DXpedition to Desecheo Island (KP5, IOTA NA-095), February 12-26, 2009. Desecheo currently sits at number 7 on *DX Magazine's* Most Wanted list. Desecheo is a small uninhabited island in the Mona Passage, 14 miles off the western coast of Puerto Rico. It is part of the USFWS's national wildlife refuge system administered by the Caribbean National Wildlife Refuge Complex (CNWR).

BARC VE EXAMS for 2008

12360 Owings Mills Blvd. Owings Mills Register: 1:30 PM, Exams begin 2 PM. No one admitted after exams begin
Saturdays: Dec 6.
n3wke@arrl.net (Thanks, N3YI)

BARC VE Exams for 2009

Sunday, January 4, 2009
Saturday, February 7, 2009
Saturday March 7, 2009
Sunday, April 5, 2008
Saturday, May 2, 2009
Saturday, June 6, 2009
Sunday, July 5, 2009
Saturday, August 1, 2009
Saturday, September 5, 2009
Sunday, October 4, 2009
Saturday, November 7, 2009
Saturday, December 5, 2009

2008 AERO VE EXAMS

Registration at 1 PM, Exams at 1:30.
Fee \$14 (ARRL VEC); All exams at White Marsh Library, 8133 Sandpiper Circle; Nov. 22. Pat Stone, AC3F, ac3f@juno.com, 410-687-7209

Other Club Exams

2nd Saturday, 1 PM. Davidsonville, by AARC. Register 12 noon. Bob, AA3RR, 410-437-8193
3rd Saturday, 9 AM. Laurel, by LARC, 384 Main St. John Creel, WB3GXW, 301-572-5124.
4th Tuesday, 6 PM. Linthicum. At Historical Electronics Museum. Harold, WB4OGP, 410-757-0493(h); 410-712-6829(w)

milliwatt swap shop

ads are free and get results!

Send ad to: BRATS, P.O. Box 5915
Baltimore, MD 21282-5915, or email
to w3gzk@verizon.net

ATTENTION: if you do NOT want your ad to run again,
please send me an email to that effect.
Thanks! w3gzk@verizon.net

FOR SALE: Icom 144 MHZ transceiver W/charger (ICOM T2H walky), belt clip and rubber ducky, & instruction book. Asking \$80.00. K3BCD, e-mail vwm07@comcast.net or 410-866-5441.

FOR SALE: mtrs mkd +-10kHz, 0-100 microamps in cabinet, \$10, mtrs and cabinet. 0-50 milliamps & 0-150 VAC \$56 each. 2-80 mtr. Dipole w/insulators and nylon line, \$10. Homebrew VSWR bridge, %5 .Regal RSDP-com duplexer spillter combiner, 2 Mtr./440 \$10. Panoramic adapter BC-1031C \$40, Millen antenna matching pre-amp with 27-32 MHz plug-in \$5. Call Ted, W3OWN. 410-668-5580, if I am out, leave message, I will call back...

FOR SALE: Heathkit SB 1000 linear amplifier, \$750 + shipping; 1200 watt transmitter, 3-1000 tube requires 100 watt for 1K output, companion power supply 120V, only 744 hours use, both built by electrical power engineer and in 100% working order, \$2000 plus shipping; HyGain HDR 300A rotator, 25 sq ft wind load and control box \$ 950 + shipping. Kenwood TS-930S xcvr., \$300 + shipping. Contact Joel, W3YZI, at 410-913-9863.

FOR SALE: Special! ICOM BC-110A battery charger , 12vDC 200mA, for ICOM T8A or similar. Used only twice, misplaced, bought a new one. Found it after new one arrived. Cost \$46, make me an offer. Mayer, W3GXX, 410-786-6839 or w3gzk@verizon.net

FOR SALE: Alinco 110 2-mtr. xcvr. \$100. ACI linear for 2 meters, \$20. Heath HM102 power meter w/ antenna selector \$40. Call Jerry, KB3AP, 443-618-0618

FREE! You remove! TV grade 30-35 foot tower in New Market, MD (off I-70). Dennis 410-842-3336.
dennis.kinsel@ngc.com

WANTED: I need an AT-930 for a TS-930s . Please send condition and price . Want complete and good unit . Jerry jerrymcf@sbcglobal.net

WANTED: 6-Meter all-mode transceiver, Kenwood TS660 or equivalent. Neil, W3ZQI, 410-765-8439, days, or neilatv@yahoo.com

FREE: Schematic for ICOM 2AT. If you need one, I will be happy to copy it and mail it to you. Mayer, W3GXX w3gzk@verizon.net

FREE: Heathkit Assembly Manual for Code Oscillator Model HD-1416; Heathkit Assembly Manual for Relative Field Strength meter Model HD-1426. Come to next BRATS meeting and pick em up.... See Mayer, W3GXX who is still cleaning stuff and finding things!!!

VTS - VIDEOTAPING SERVICE

Video/DVD duplications, video tape transferred to DVD. One source up to 2 hours, \$30. Standards, conversions. Call VTS toll free at 1-877-891-1002. BRATS member Bob Shapiro, K2MYS <http://www.videotapingservice.com>

JADE COMPUTERS, LLC

1009 Ingleside Ave, Baltimore, MD 21228. Phone 410-719-1246 ; Fax 410-719-9494. Your answer to custom built PC, office and home networking. Reseller for Net Integrity server, cable modem, DSL, webpage design and hosting POS and networking. We do CPR to your CPU. Kid tested, mother approved. Order PC on line: <http://www.jadecomputers.us> email: joed@jadecomputers.us

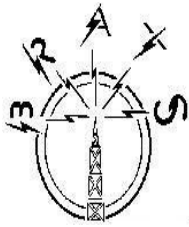
Antique Radio Repair, Restoration

Eric, WA3TAD, Audio-Visual Service / Retro Radio, 3401 Chestnut Avenue, Baltimore, MD 21211. 410-467-3620; wa3tad@comcast.net

Radio Consignment Shop at Overlea Hobbies

8411 Harford Road, Parkville, 410-665-3622. Home of fine trains, model kits, x-acto, cars, planes, ships, many radios. Yaesu FT101ZD, Kenwood TS 820S, 930S, Heathkit SB-102, National NC-183, more ... Dick, N3JWN, 410-488-2806

WANTED: AC Gilbert erector sets; old, new, large, small, need not be complete. CASH paid. Lewis, 410-296-4874



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December 2008

LOCAL ATV NETS

- Tuesday, 11:45 AM
Informal Net, W3WVV (Audio on 147.03/R)
- Wednesday, 9 PM
CATS Net, rotating Net Control (Audio on 147.345+/R)
- Thursday, 9 PM
BRATS Net, Rotating Net Control (Audio on 147.03/R)
- Sunday
MATS Net, KB3LNN, 3 PM: International, 8 PM Standard (BRATS ATV and Linked FM Repeaters)

UTAH ATV

Lots of projects and links:
http://www.ussc.com/~uarc/utah_atv/utah_atv.html
(Thanks, Scott, KB3JQQ)

Interesting Web Site

British Amateur Television Club (BATC)
<http://www.batc.org.uk>

Next BRATS Meeting

Annual Holiday Party
Tuesday, December 16, 7:15 PM
Pikesville Library
1301 Reisterstown Road

Other Radio Club Meetings

QCWA

Monday at Noon, Cactus Willie 7315
Ritchie Hwy, Glen Burnie
3rd Thursday, 1 PM: Old Country Buffet,
Joppa Road at Satyr Hill
Last Wednesday, 1 PM: Denny's Bel Air Rd
at Putty Hill

AARC

1st and 3rd Thursdays, 7:30 PM
Davidsonville Family Rec. Center, Queen
Anne Bridge Rd, Wayson Rd (147.105R)

AMRAD

2nd Thursday, 7:30 PM,
Dolley Madison Library; 1244 Oak Ridge
Ave. McLean, VA (147.21/R)

BARC

1st and 3rd Wednesday, 7:30 PM
12360 Owings Mills Blvd (near warehouse)
Owings Mills, MD (146.67R)

CARA

4th Tuesday,
Gateway Center, Rm 401, 6751 Gateway Dr.
Columbia South off Rt 175 (147.135/R)

How Do I Join The BRATS?

I want to become a member, what do I do? Just print out the form below and mail it with your check (Member, \$15; Retired/Disabled/Student, \$10; Family, \$20) to: BRATS, PO Box 5915, Baltimore, MD 21282

BRATS Membership Renewal: Regular=\$15; Retired/Disabled/Student \$10; Family \$20

Name _____	Call Sign _____	BRATS No _____
Address _____	City/State/Zip _____	
Phone _____	Email _____	

MAIL TO: BRATS, P.O.Box 5915, Baltimore, MD 21282-5915
